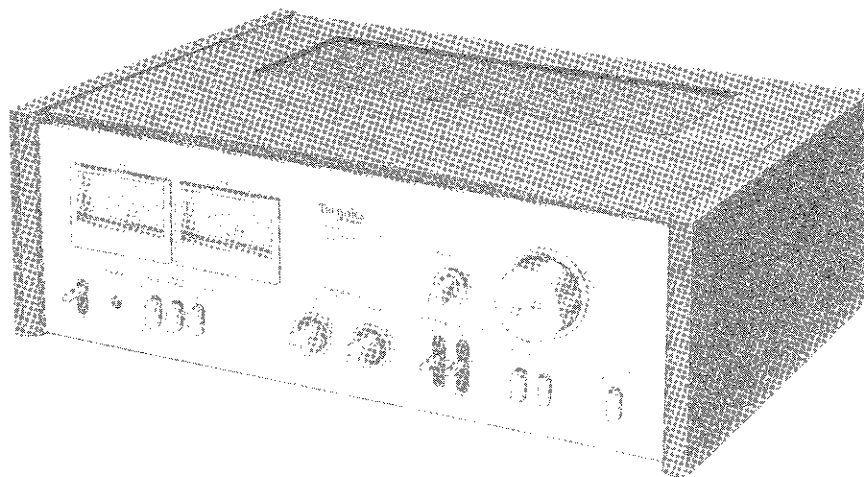


Service Manual

Stereo Integrated Amplifier

SU-7300

(M), (MC)



Simulated wood cabinet

- The model SU-7300 (M) is available in America only.
- The model SU-7300 (MC) is available in Canada only.

TECHNICAL SPECIFICATIONS (Specifications are subject to change without notice for further improvement.)

AMPLIFIER SECTION

Rated minimum sine wave RMS power output
20 Hz ~ 20 kHz
both channels driven
0.08% total harmonic distortion
48W per channel (4 ohms)
41W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.08% total harmonic distortion
55W per channel (4 ohms)
43W per channel (8 ohms)

Total harmonic distortion
0.08% at rated power (20 Hz ~ 20 kHz)
0.04% at half power (20 Hz ~ 20 kHz)
0.02% at half power (1 kHz)

Intermodulation distortion 0.08%
Damping factor 20 (4 ohms), 40 (8 ohms)

Input sensitivity and impedance
PHONO 2.5mV/47 kilohms
TUNER 150mV/47 kilohms
TAPE 1, 2 (PLAYBACK) 150mV/47 kilohms

PHONO maximum input voltage (1 kHz, RMS) 150mV
S/N (1HF, A)

PHONO 78 dB
TUNER 97 dB

Residual hum and noise 0.6mV

Frequency response

PHONO RIAA standard curve ± 0.3 dB
TUNER 7 Hz ~ 80 kHz, -3 dB
20 Hz ~ 20 kHz, ± 0.5 dB

Tone controls

BASS 50 Hz, $+12$ dB ~ -12 dB
TREBLE 20 kHz, $+12$ dB ~ -12 dB

High filter 8 kHz, -6 dB/oct.
Loudness control (volume at -30 dB) 100 Hz, $+8$ dB

Output voltage
TAPE 1, 2 (REC OUT) 150mV

Load impedance
MAIN or REMOTE 4 ~ 16 ohms

GENERAL

Power consumption 140W (only for America)
260VA (only for Canada)

Power supply AC 120V 60 Hz

Dimensions (W x H x D) $17 \frac{5}{16} \times 5 \frac{3}{4} \times 13 \frac{5}{32}$ "
(441 x 146 x 334) mm

Weight 20.1 lb. (9.1 kg)

Weights and dimensions shown are approximate.

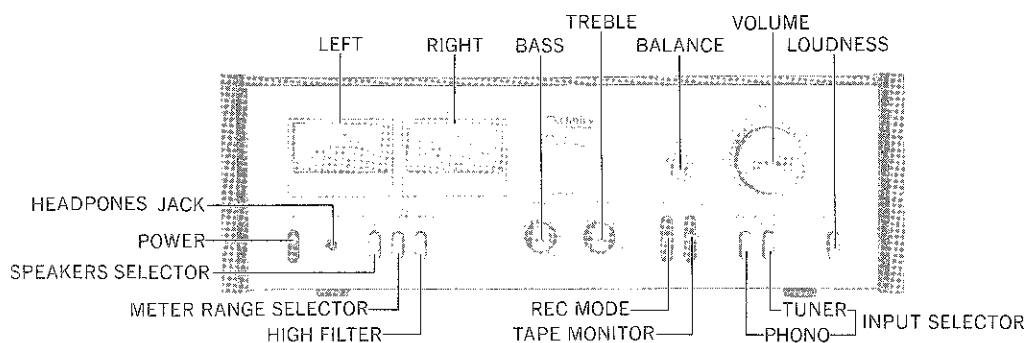
Technics
by Panasonic

Panasonic Company
Division of Matsushita Electric
Corporation of America
One Panasonic Way, Secaucus,
New Jersey 07094

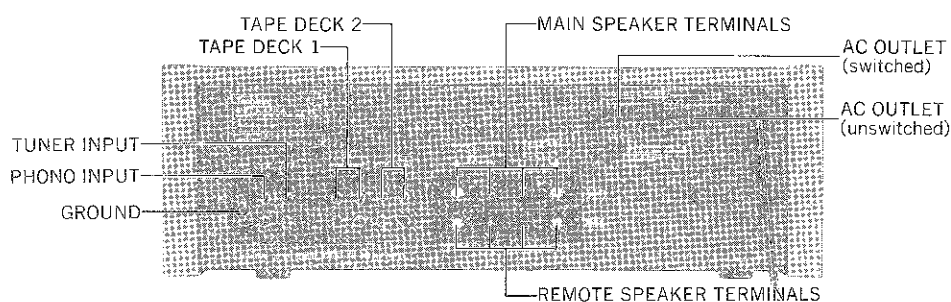
Matsushita Electric of Hawaii, Inc.
320 Waiakamilo Road, Honolulu,
Hawaii 96817

Matsushita Electric of Canada Ltd.
40 Ronson Drive, Rexdale,
Ontario, Canada M9W 1B5

■ LOCATION OF CONTROLS



Front Panel View



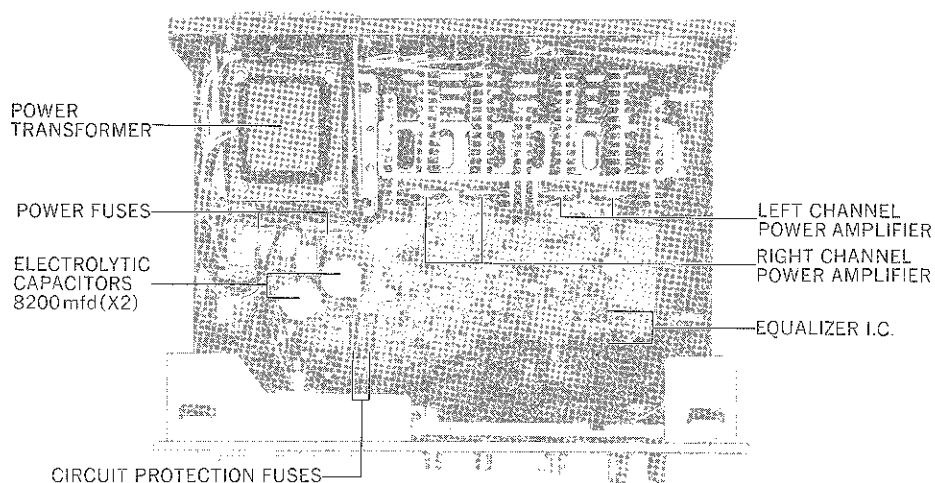
Rear Panel View

NOTE:

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively.

The fuse is to prevent the power transistor from destruction, should the speaker terminals be short-circuited.

Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker protection fuses first of all for possible blowing.



Chassis View

■ TO REMOVE CABINET

1. Remove four (4) cabinet-mounting screws, nos. ① ~ ④, as shown in fig. 1.
2. Remove cabinet from chassis.
3. To reassemble, reverse above procedure.

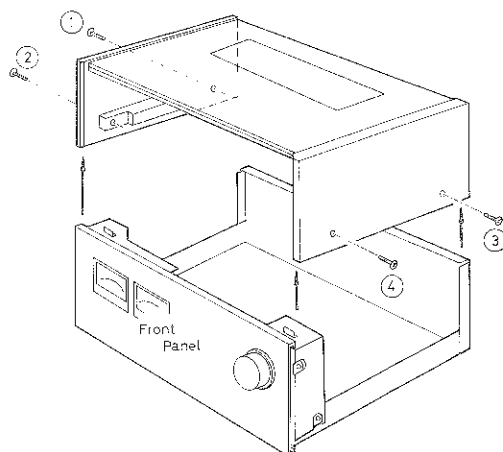


Fig. 1

■ TO REMOVE CHASSIS

1. Remove cabinet from chassis. (Refer to "To remove cabinet")
2. Remove four (4) panel bracket-mounting screws, nos. ① ~ ④, as shown in fig. 2.
3. Remove panel bracket from chassis. (right and left side)
4. Remove four (4) panel-mounting screws, nos. ⑤ ~ ⑧, as shown in fig. 2.
5. Remove lead wire from lead clamp, as shown in fig. 3.

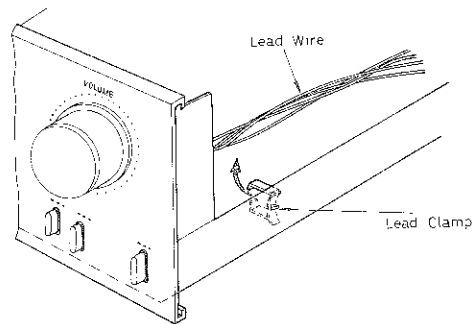


Fig. 3

6. Remove a metal clamp-mounting screw, no. ⑨, as shown in fig. 4.
7. Remove metal clamp of printed circuit board.
8. Remove four (4) heatsink-mounting screws, nos. ⑩ ~ ⑬, as shown in fig. 4.

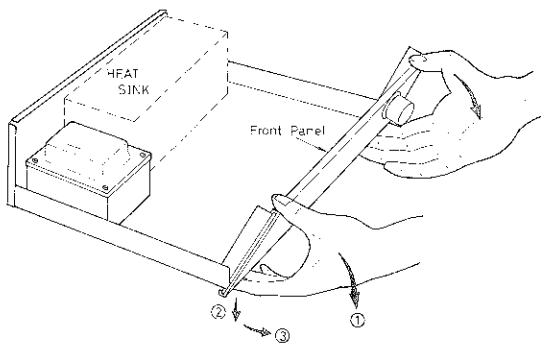


Fig. 5

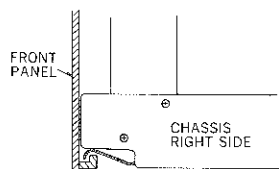


Fig. 6

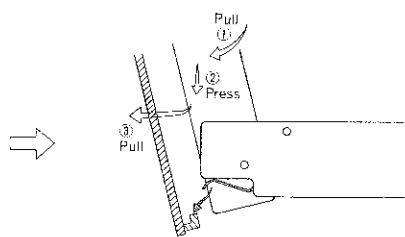


Fig. 7

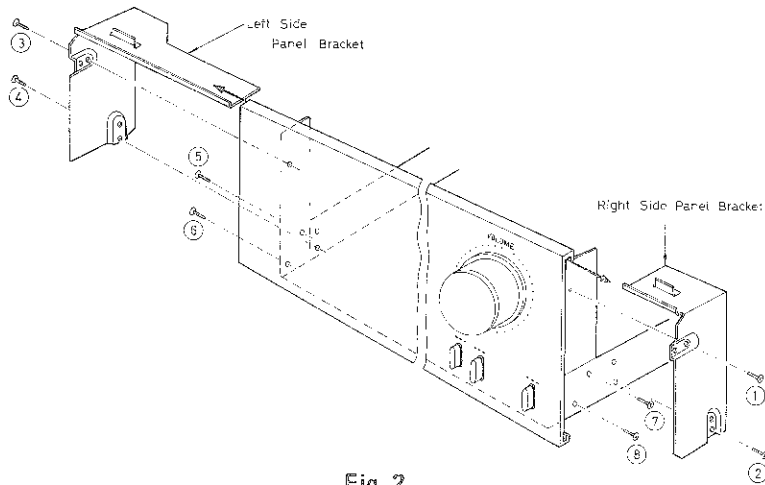


Fig. 2

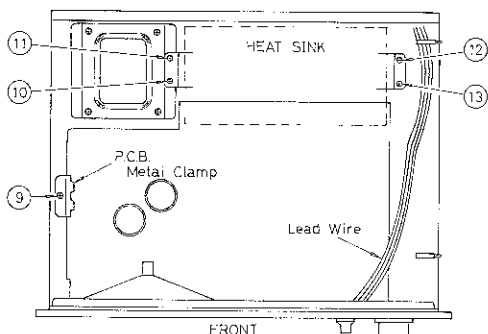


Fig. 4

9. As shown in fig. 5, hold the panel at its side ends and push it downward tilting slightly its top part to the frontward direction.
10. Remove the front panel from the chassis, as shown in fig. 6 to fig. 7.
11. Set the printed circuit board on the chassis as indicated in fig. 8.
12. The front panel can be reset in the reverse sequence.
13. Mount the lever switch bracket inside the chassis prior to resetting the front panel, as shown in fig. 8.

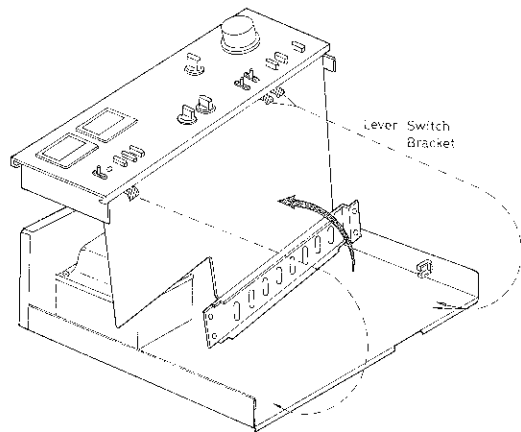


Fig. 8

■ ALIGNMENT INSTRUCTIONS

- When the power transistor is replaced, be sure to apply silicone compound (or equivalent thermal diffusion agent) onto the mica plate, and at the same time confirm the idling current of the power transistor. (measure voltage across the emitter resistance)
- Ⓐ For adjustment with DC voltmeter
 1. Turn the speaker switch "OFF".
 2. Connect the DC voltmeter as in fig. 9 of the adjusting spot diagram.
 3. If the reading is under 25mV approximately several minutes after turning ON the power supply, the circuit is "OK". On the other hand, if the reading is over 25mV, cut off the lead wire for L in the case of left channel (The lead wire for R in the case of right channel).
 4. Should the reading not fall under 25mV even when the lead wire has been cut off, there is something wrong with the circuit, and therefore, check the power source circuit or main amplifier circuit.
- Ⓑ Current should be checked only when adjustment is made with a tester. (measuring instrument incapable of measuring voltage in mV unit).
 1. Turn OFF the power supply for the set.
 2. Connect the ammeter as shown in fig. 11.
 3. After ensuring that the ammeter will not come off, turn ON the power supply.
 4. If the reading is under 75mA after several minutes (But, when nothing resistance of internal resistor by ammeter) the circuit is "OK". If over 75mA, cut off the lead wire for L in the case of left channel (The lead wire for R in the case of right channel).
 5. If the reading does not fall under 75mA, there is something wrong with the circuit.

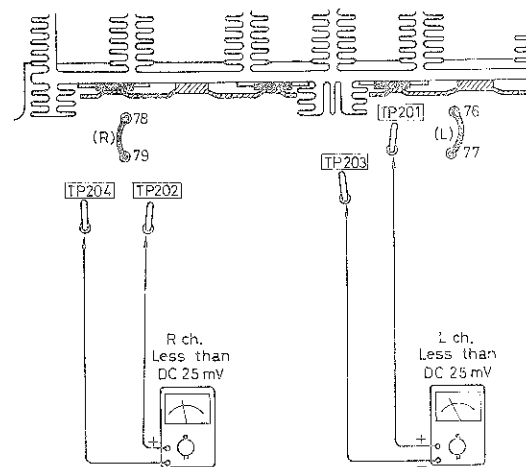
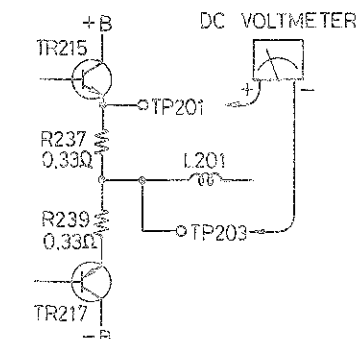


Fig. 9

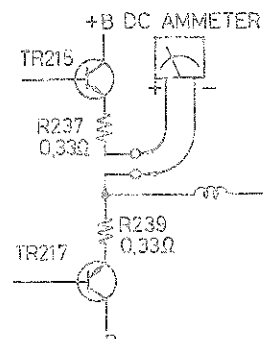
Notes:

1. When cutting off the lead wire, cut off the same at root.
2. The adjustment may be made either by Ⓐ or by Ⓑ method. (We recommend the method Ⓐ where possible).
3. Fig. 10 and 11 are related to the case of left channel.



Voltage check method

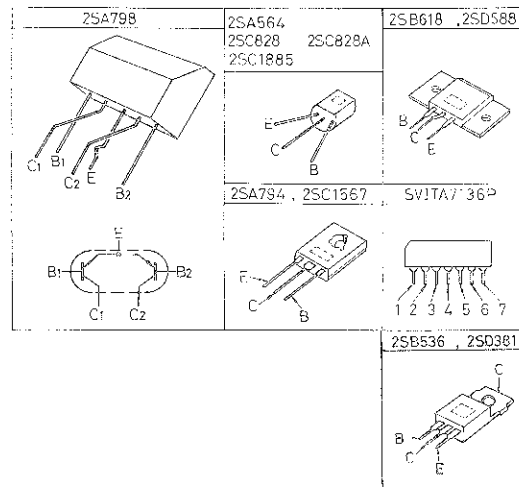
Fig. 10



Current check method

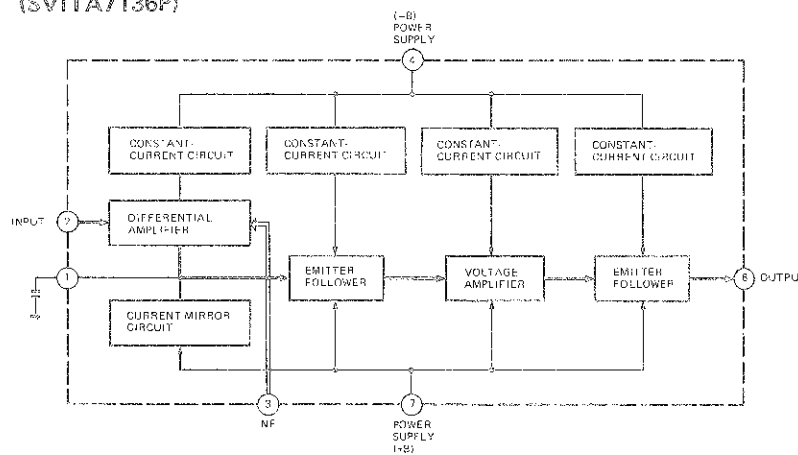
Fig. 11

■ TR. & I.C. TERMINAL GUIDE



■ BLOCK DIAGRAM OF INTEGRATED CIRCUIT

IC101, IC102
(SVTA7136P)



1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H

PHONO
TUNER
REC OUT
PLAYBACK
TAPE DECK 1
TAPE DECK 2
REC OUT
PLAYBACK

IC101,102
SV1TA/136P
EQUALIZER

SUP11150A

IC101
IC102

S1 TUNER
S2 PHONO
S3 TAPE MONITOR
S4 REC. MODE

VR151 2500B
VR152 2000G
VR251 1000C
VR252 1000C
VR253 1000C
VR254 1000C
VR255 1000C
VR256 1000C
VR257 1000C
VR258 1000C
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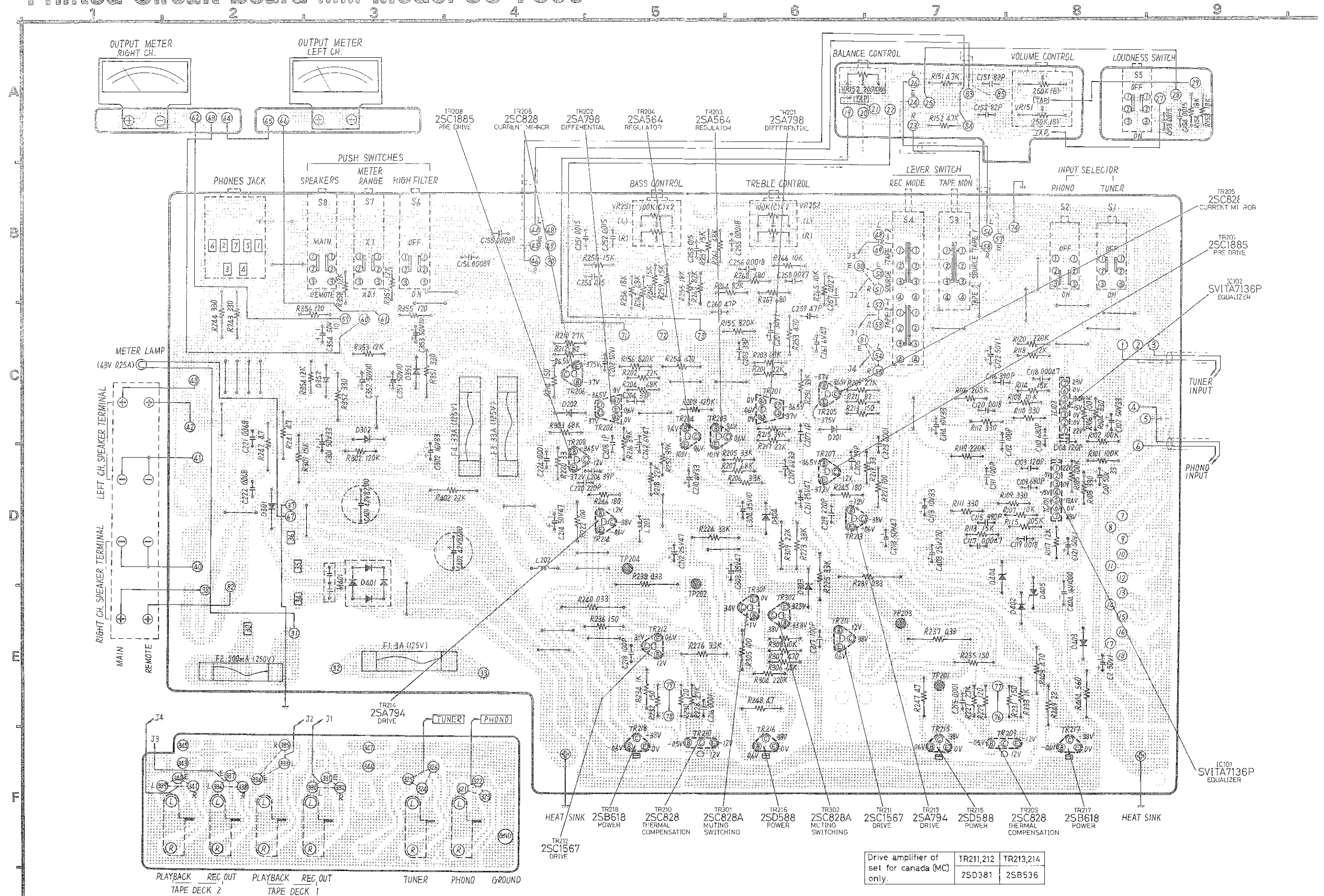
Notes:

1. S1, S2: Input selector switch in "PHONO" push position.
S1 (TUNER) S2 (PHONO)
2. S3: Tape monitor switch in "SOURCE" position.
②{(TAPE 1) ↔ ③{(SOURCE) ↔ ④{(TAPE 2)
3. S4: Recording mode switch in "SOURCE" position.
②{(TAPE 1 → ③{(SOURCE) ↔ ④{(TAPE 2 → 1)
4. S5: Loudness switch in "OFF" position.
5. S6: High filter switch in "OFF" position.

6. S7: Meter range selector switch in "X1" position.
(X1 $\leftrightarrow$ X 0.1)
7. S8: Speakers selector switch in "MAIN" position.
(MAIN $\leftrightarrow$ REMOTE)
8. S9: Power switch in "OFF" position.

9. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
10. This schematic diagram may be modified at any time with the development of new technology.

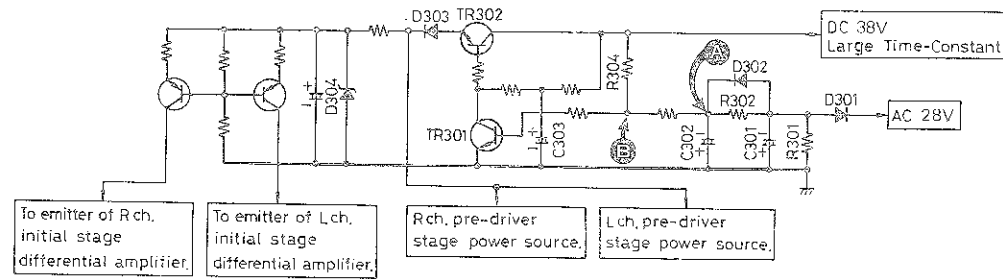
Printed Circuit Board Model SU-7300



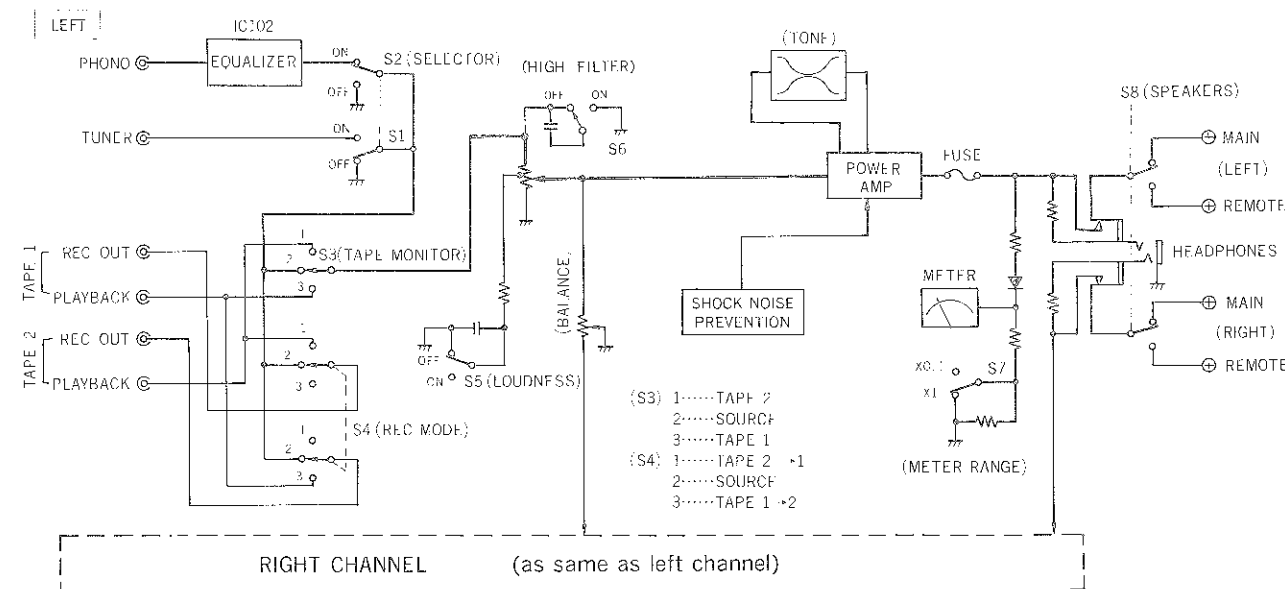
SERVICE AID

Shock noise prevention circuit during ON-OFF of power supply

In the voltage at the point ①, at the moment when the power supply is turned ON, C302 is charged by the current rectified to negative through D301. Therefore, gradual change to minus takes place from 0V. During this time, positive voltage is applied to the base of TR301 which is thus rendered conductive. Consequently, the base of TR302 connected to TR301 is of ground potential, with TR302 not being functioning. In other words, no current is flowing through the preamplifier in this state. After the power supply is turned ON, the potential at the point ③ gradually decreases as the point ① is saturated to negative through time constant of R302 and C302, and when TR301 reaches cut-off state, positive voltage goes on charging C303. Upon rising of the base potential of TR302 close to 0.7V, TR302 is turned ON, thus causing current to flow through the preamplifier. Time required from turning ON of the power supply to functioning of the preamplifier is set to be approximately 6 to 7 seconds. When the power supply is turned OFF, D302 is biased in the forward direction, and if R301 ≪ R302, the charges in C301 and C302 are discharged through R301 in a short period of time. However, large positive voltage of specific constant does not fall immediately, with voltage at the point ② rising up to TR301 operating voltage for causing TR301 to function. Accordingly, the charge in C303 is discharged, and TR302 rapidly reaches cut-off state, with current being prevented from flowing through the preamplifier, so that the shock noises from the preamplifier section during turning OFF of the power supply can be eliminated.



BLOCK DIAGRAM



REPLACEMENT PARTS LIST

Important Safety Notice
Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

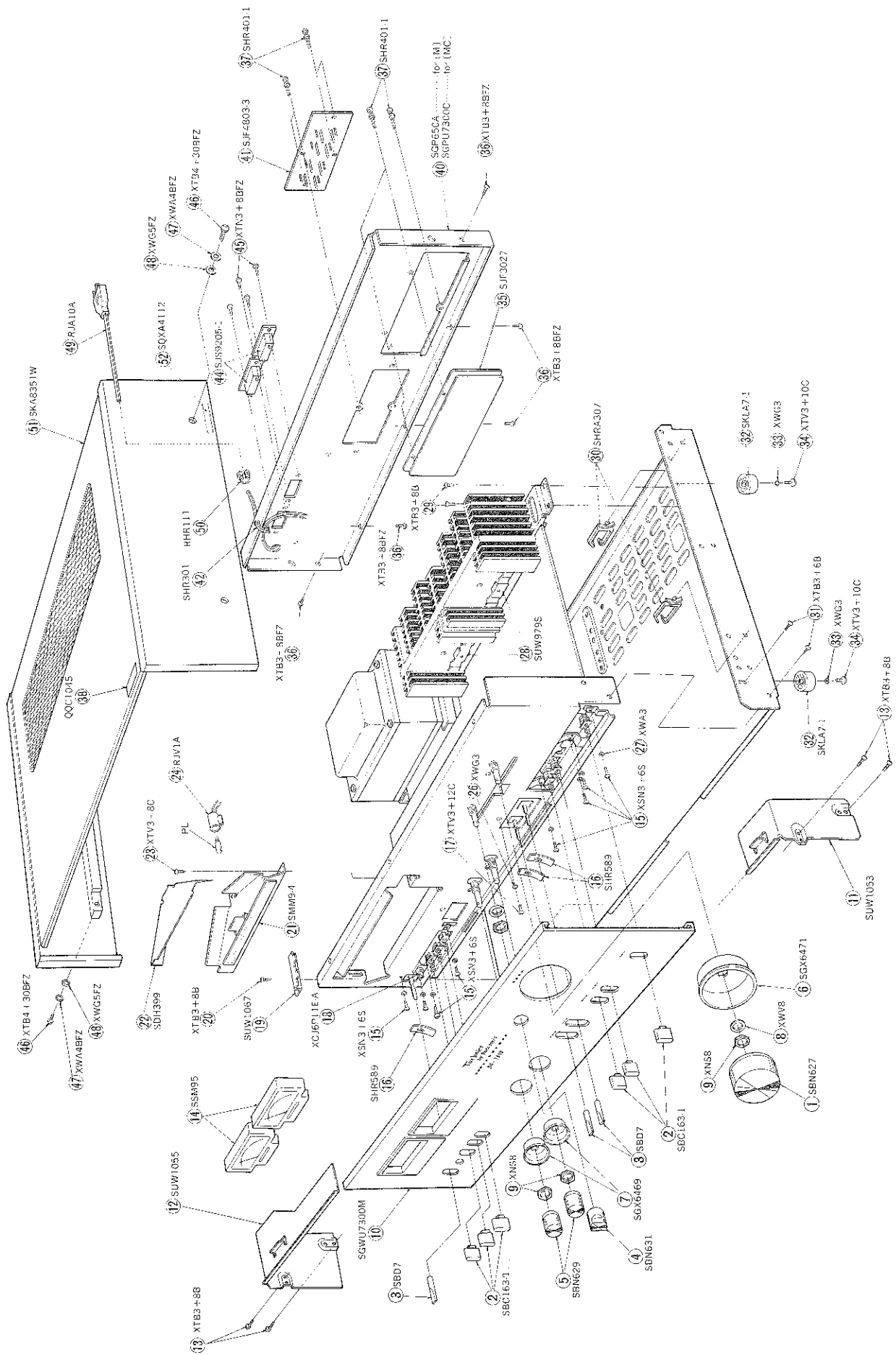
NOTE: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
INTEGRATED CIRCUITS				
IC101, 102	SVTA7138PM	IC, Equalizer Amplifier	2	
TRANSISTORS				
TR201, 202	2SA798A-G2	Transistor, Differential Amplifier (Use in ranks F2 or G2)	2	
TR203, 204	2SA668A1-R	Transistor, Regulator (in ranks Q, R or S)	2	
TR205, 206, 301, 302	2SC1328-T	Transistor, Current Mirror & Switching (Use in ranks T, U or S)	4	
TR207, 208	2SC1885-R	Transistor, Pre Drive (in ranks Q, R or S)	2	
TR209, 210	2SC828A-R	Transistor, Thermal Compensator	2	
TR211, 212	2SC1567-Q	Transistor, Drive Amp. (Use in ranks Q or H)	2	
TR213, 214	2SA794-Q	Transistor, Drive Amp. (Use in ranks Q or R)	2	
TR211, 212	2SC381-K9	Transistor, Drive Amp. (Use in ranks K9 or L9)	2	
TR213, 214	2SB536-K9	Transistor, Drive Amp. (Use in ranks K9 or L9)	2	
TR215, 216	2SD588-Q	Transistor, Power Amp. (Use in ranks Q or H)	2	
TR217, 218	2SB618-Q	Transistor, Power Amp. (Use in ranks Q or R)	2	
DIODES				
D201, 202, 302, 303, 402, 403	MA150	Diode, Current Mirror & Switching	6	
D301	SVTD10E1	Rectifier	1	
D304, 405	SVDMZ314	Zener Diode, 14V	2	
D351, 352	OA91	Diode, Meter Detector	2	
D401	SVDS4V610	Rectifier	1	
D404	SVDM2422	Zener Diode, 22V	1	
COILS and TRANSFORMER				
L201, 202	SLDY15G-1U	Coil, Compensation	2	
T1 (MC)	SLT5Q47	Power Transformer	1	
T1 (MC)	SLT5Q69	Power Transformer	1	
RESISTORS				
R101	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1	
R102	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1	
R103	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R104	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R105	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1	
R106	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R107	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R108	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R109	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R110	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R111	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R112	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R113	ERC25CKF1502	Metal Film, 15kΩ, 1/4W, ± 1%	1	
R114	ERC25CKF1502	Metal Film, 15kΩ, 1/4W, ± 1%	1	
R115	ERC25CKF2053	Metal Film, 205kΩ, 1/4W, ± 1%	1	
R116	ERC25CKF2053	Metal Film, 205kΩ, 1/4W, ± 1%	1	
R117	ERD25TJ122	Carbon, 1.2kΩ, 1/4W, ± 5%	1	
R118	ERD25TJ122	Carbon, 1.2kΩ, 1/4W, ± 5%	1	
R119	ERD25TJ224	Carbon, 220kΩ, 1/4W, ± 5%	1	
R120	ERD25TJ224	Carbon, 220kΩ, 1/4W, ± 5%	1	
R151	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
R152	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
R153	ERD25TJ183	Carbon, 18kΩ, 1/4W, ± 5%	1	
R154	ERD25TJ183	Carbon, 18kΩ, 1/4W, ± 5%	1	
R155	ERD25TJ824	Carbon, 820kΩ, 1/4W, ± 5%	1	
R156	ERD25TJ824	Carbon, 820kΩ, 1/4W, ± 5%	1	
R201	ERD25TJ222	Carbon, 2.2kΩ, 1/4W, ± 5%	1	
R202	ERD25TJ222	Carbon, 2.2kΩ, 1/4W, ± 5%	1	
R203	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R204	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R205	ERD25TJ332	Carbon, 3.3kΩ, 1/4W, ± 5%	1	
R206	ERD25TJ332	Carbon, 3.3kΩ, 1/4W, ± 5%	1	
R207	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R208	ERD25TJ24	Carbon, 120kΩ, 1/4W, ± 5%	1	
R209	ERD25TJ273	Carbon, 27kΩ, 1/4W, ± 5%	1	
R210	ERD25TJ273	Carbon, 27kΩ, 1/4W, ± 5%	1	
R211	ERD25TJ820	Carbon, 82Ω, 1/4W, ± 5%	1	
R212	ERD25TJ820	Carbon, 82Ω, 1/4W, ± 5%	1	
R213	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R214	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R215	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R216	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R217	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R218	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R219	ERD25TJ272	Carbon, 2.7kΩ, 1/4W, ± 5%	1	
R220	ERD25TJ272	Carbon, 2.7kΩ, 1/4W, ± 5%	1	
R221	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R222	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R223	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R224	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R225	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R226	ERD25TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R227	ERD25TJ272	Carbon, 2.7kΩ, 1/4W, ± 5%	1	
R228	ERD25TJ272	Carbon, 2.7kΩ, 1/4W, ± 5%	1	
R229	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R230	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R231	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R232	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R233	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R234	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R235	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R236	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R237	ERX2ANJR33	0.33Ω, 2W, Metal Film, ± 5%	1	
R238	ERX2ANJR33	0.33Ω, 2W, Metal Film, ± 5%	1	
R239	ERX2ANJR33	0.33Ω, 2W, Metal Film, ± 5%	1	
R240	ERX2ANJR33	0.33Ω, 2W, Metal Film, ± 5%	1	
R241	ERX1ANJ4R7	4.7Ω, 1W, Metal Film, ± 5%	1	
R242	ERX1ANJ4R7	4.7Ω, 1W, Metal Film, ± 5%	1	
R243	ERG1ANJ331	330Ω, 1W, Metal Film, ± 5%	1	
R244	ERG1ANJ331	330Ω, 1W, Metal Film, ± 5%	1	
R245	ERD25TJ181	180Ω, 1/4W, Carbon, ± 5%	1	
R246	ERD25TJ181	180Ω, 1/4W, Carbon, ± 5%	1	
R247	ERD14FJ4R7	4.7Ω, 1/4W, Carbon, ± 5%	1	
R248	ERD14FJ4R7	4.7Ω, 1/4W, Carbon, ± 5%	1	
R249	ERD14FJ2R2	2.2Ω, 1/4W, Carbon, ± 5%	1	
R251	ERD25TJ392	39kΩ, 1/4W, Carbon, ± 5%	1	
R252	ERD25TJ392	3.9kΩ, 1/4W, Carbon, ± 5%	1	
R253	ERD14FJ4R7	470Ω, 1/4W, Carbon, ± 5%	1	
R254	ERD14FJ4R7	470Ω, 1/4W, Carbon, ± 5%	1	
R255	ERD25TJ183	18kΩ, 1/4W, Carbon, ± 5%	1	
R256	ERD25TJ183	18kΩ, 1/4W, Carbon, ± 5%	1	
R257	ERD25TJ153	15kΩ, 1/4W, Carbon, ± 5%	1	
R258	ERD25TJ153	15kΩ, 1/4W, Carbon, ± 5%	1	
R259	ERD25TJ152	1.5kΩ, 1/4W, Carbon, ± 5%	1	
R260	ERD25TJ152	1.5kΩ, 1/4W, Carbon, ± 5%	1	
R261	ERD25TJ392	6.8kΩ, 1/4W, Carbon, ± 5%	1	
R262	ERD25TJ392	6.8kΩ, 1/4W, Carbon, ± 5%	1	
R263	ERD25TJ392	8.2kΩ, 1/4W, Carbon, ± 5%	1	
R264	ERD25TJ392	8.2kΩ, 1/4W, Carbon, ± 5%	1	
R265	ERD25TJ103	10kΩ, 1/4W, Carbon, ± 5%	1	
R266	ERD25TJ103	10kΩ, 1/4W, Carbon, ± 5%	1	
R267	ERD25TJ681	680Ω, 1/4W, Carbon, ± 5%	1	
R268	ERD25TJ681	680Ω, 1/4W, Carbon, ± 5%	1	
R301	ERG2ANJ152	1.5kΩ, 2W, Metal Film, ± 5%	1	
R302	ERD25TJ124	120kΩ, 1/4W, Carbon, ± 5%	1	
R303	ERD25TJ683	68kΩ, 1/4W, Carbon, ± 5%	1	
R304	ERD25TJ224	220kΩ, 1/4W, Carbon, ± 5%	1	
R305	ERD14FJ101	100Ω, 1/4W, Carbon, ± 5%	1	
R306	ERD25TJ683	68kΩ, 1/4W, Carbon, ± 5%	1	
R307	ERD25TJ471	470Ω, 1/4W, Carbon, ± 5%	1	
R308	ERD25TJ103	10kΩ, 1/4W, Carbon, ± 5%	1	
R309	ERD50TJ222	2.2kΩ, 1/2W, Carbon, ± 5%	1	
R351	ERD12FJ331	330Ω, 1/2W, Carbon, ± 5%	1	
R352	ERD12FJ331	330Ω, 1/2W, Carbon, ± 5%	1	
R353	ERD25TJ123	12kΩ, 1/4W, Carbon, ± 5%	1	
R354	ERD25TJ223	12kΩ, 1/4W, Carbon, ± 5%	1	
R355	ERD25TJ121	120Ω, 1/4W, Carbon, ± 5%	1	
R356	ERD25TJ121	120Ω, 1/4W, Carbon, ± 5%	1	
R357	ERD25TJ122	1.2kΩ, 1/4W, Carbon, ± 5%	1	
R358	ERD25TJ122	1.2kΩ, 1/4W, Carbon, ± 5%	1	
R402	ERG1ANJ222	2.2kΩ, 1W, Metal Film, ± 5%	1	
R403	ERD12FJ471	470Ω, 1/2W, Carbon, ± 5%	1	
R404	ERG2ANJ561	560Ω, 2W, Metal Film, ± 5%	1	
VARIABLE RESISTORS				
VR151	EW-FUMA0249F5	Volume Control, 250kΩ (B)	1	
VR152	EVHGSAF25C25	Balance Control, 200kΩ (G)	1	
VR251, VR2	FWKCYA033C15	Bass & Treble Control, 100kΩ (C)	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CAPACITORS				
C1 [M]	ECQU1A103MD	0.01μF, 125V, Polyester, ±20%	1	
C1 [MC]	ECQU1A103MC	0.01μF, 125V, Polyester, ±20%	1	
C2	ECEA50V1	Electrolytic, 1μF, 50V	1	
C101	ECFA50MR3R	Electrolytic, 3.3μF, 50V	1	
C102	ECFA50MR3R	Electrolytic, 3.3μF, 50V	1	
C103	ECDD2H121KB	Ceramic, 120pF, 500V, ±10%	1	
C104	ECDD2H121KB	Ceramic, 120pF, 500V, ±10%	1	
C109	ECDD2H681KB	Ceramic, 680pF, 500V, ±10%	1	
C110	ECDD2H681KB	Ceramic, 680pF, 500V, ±10%	1	
C111	ECDD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C112	ECDD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C113	ECEA10V33	Electrolytic, 33μF, 10V	1	
C114	ECFA10V33	Electrolytic, 33μF, 10V	1	
C115	ECDD2H391KB	Ceramic, 390pF, 500V, ±10%	1	
C116	ECDD2H391KB	Ceramic, 390pF, 500V, ±10%	1	
C117	ECQM11H472JZ	Polyester, 0.0047μF, 50V, ±5%	1	
C118	ECQM1H472JZ	Polyester, 0.0047μF, 50V, ±5%	1	
C119	ECQM1H183JZ	Polyester, 0.018μF, 50V, ±5%	1	
C120	ECQM1H183JZ	Polyester, 0.018μF, 50V, ±5%	1	
C121	ECFA50M1R	Electrolytic, 1μF, 50V	1	
C177	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C1B5	ECDD1H820K	Ceramic, 82pF, 50V, ±10%	1	
C152	ECDD1H870K	Ceramic, 82pF, 50V, ±10%	1	
C153	ECQV1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	
C154	ECQV1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	
C155	ECQV1H392KZ	Polyester, 0.0039μF, 50V, ±10%	1	
C156	ECQV1H392KZ	Polyester, 0.0039μF, 50V, ±10%	1	
C201	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C202	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C203	ECDD1H330K	Ceramic, 33pF, 50V, ±10%	1	
C204	ECDD1H330K	Ceramic, 33pF, 50V, ±10%	1	
C205	ECDD1H390K	Ceramic, 39pF, 50V, ±10%	1	
C206	ECDD1H390K	Ceramic, 39pF, 50V, ±10%	1	
C207	ECDD1H101C	Ceramic, 1pF, 50V, ±0.25pF	1	
C208	ECDD1H101C	Ceramic, 1pF, 50V, ±0.25pF	1	
C209	ECEA6V33	Electrolytic, 33μF, 6.3V	1	
C210	ECEA6V33	Electrolytic, 33μF, 6.3V	1	
C211	ECFA35V47V	Electrolytic, 47μF, 35V	1	
C212	ECFA35V47V	Electrolytic, 47μF, 35V	1	
C213	ECFA50V47V	Electrolytic, 47μF, 50V	1	
C214	ECFA50V47V	Electrolytic, 47μF, 50V	1	
C215	ECQV1H102PF	Ceramic, 0.001μF, 50V, +100%, -0	1	
C216	ECQV1H102PE	Ceramic, 0.001μF, 50V, +100%, -0	1	
C217	ECDD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C218	ECDD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C219	ECQV1H221KB	Ceramic, 220pF, 500V, ±10%	1	
C220	ECQV1H221KB	Ceramic, 220pF, 500V, ±10%	1	
C221	ECQV1H683KZ	Polyester, 0.068μF, 50V, ±10%	1	
C222	ECQV1H683KZ	Polyester, 0.068μF, 50V, ±10%	1	
C223	ECQV1H102PF	Ceramic, 0.001μF, 50V, +100%, -0	1	
C224	ECQV1H102PF	Ceramic, 0.001μF, 50V, +100%, -0	1	
C251	ECQM1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	
C252	ECQM1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	

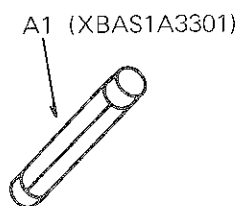


Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C253	ECQM1H154KZ	Polyester, 0.15 μ F, 50V, $\pm 10\%$	1	
C254	ECQM1H154KZ	Polyester, 0.15 μ F, 50V, $\pm 10\%$	1	
C255	ECQM1H182KZ	Polyester, 0.0018 μ F, 50V, $\pm 10\%$	1	
C256	ECQM1H182KZ	Polyester, 0.0018 μ F, 50V, $\pm 10\%$	1	
C257	ECQM1H273KZ	Polyester, 0.027 μ F, 50V, $\pm 10\%$	1	
C258	ECQM1H273KZ	Polyester, 0.027 μ F, 50V, $\pm 10\%$	1	
C259	ECQD1H470K	Ceramic, 47pF, 50V, $\pm 10\%$	1	
C260	ECQD1H470K	Ceramic, 47pF, 50V, $\pm 10\%$	1	
C261	ECCA6V47	Electrolytic, 47 μ F, 6.3V	1	
C262	ECCA6V47	Electrolytic, 47 μ F, 6.3V	1	
C301	ECEA63V33V	Electrolytic, 33 μ F, 63V	1	
C302	ECEA25V33V	Electrolytic, 33 μ F, 25V	1	
C303	ECEA35V47V	Electrolytic, 47 μ F, 35V	1	
C304	ECEA35V10	Electrolytic, 10 μ F, 35V	1	
C351	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C352	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C353	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C354	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C401	ECET42R822S	Electrolytic, 8200 μ F, 42V	1	
C402	ECET42R822S	Electrolytic, 8200 μ F, 42V	1	
C403	ECEA25V220V	Electrolytic, 220 μ F, 25V	1	
C404	ECEA16V1000V	Electrolytic, 1000 μ F, 16V	1	
FUSES				
F1	XBA1F30NU100	Fuse, 3A(125V), Power Source	1	
F2	XBA2F05NU100	Fuse, 500mA(250V), Power Source	1	
F3, 4	XBA5IA3301	Fuse, 3.3A(125V), Speaker Circuit Protection	2	
COMPONENT COMBINATION				
M401	XAXAF103P27H3	Component Combination, 0.01 μ F (X2)	1	
PILOT LAMP				
PL1	XAM/P53K	Meter Lamp (6.3V 0.25A)	1	
SWITCHES				
S1, 2	SSH235S	Switch, Input Selector	1	
S3, 4	SSL23	Switch, Recording Mode & Tape Monitor	1	
S5	SSH675	Switch, Loudness	1	
S6, 7, 8	SSH529S	Switch, Filter, Meter & Speaker	1	
S9	SSL36S	Switch, Power Source	1	
CABINET and CHASSIS PARTS				
1	SNV627	Knob, Volume Control	1	
2	SDT163-1	Button, Push Switches	6	
3	SDT	Knob, Level Switches	3	
4	SNV631	Knob, Balance Control	1	
5	SNV629	Knob, Bass & Treble	2	
6	SGX6471	Ornament, Volume Knob	1	
7	SGX6469	Ornament, Bass & Treble Knobs	2	
8	XNV8	Washer (Spring), Balance & Volume	2	
9	XNV8	Nut, Bass, Treble, Balance & Volume	4	
10	SGWU7300M	Panel, Front Assy	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
11	SLW1053	Bracket, Front Panel	1	* O
12	SLW1055	Bracket, Front Panel	1	* O
13	XTB3183	Screw, Front Panel, Bracket M'tg	4	
14	SSM95	Meter, Output Level	2	
15	XSN3H6S	Screw, Push Switches & Power Switch M'tg	8	
16	SHR589	Bracket, Power, Tape & Rec Mode Switch	3	O
17	XTV3-12C	Screw, Tape & Rec Mode Switch M'tg	1	
18	XCJ6F11E-A	Jack, Headphones	1	
19	SLW1057	Bracket, Printed Circuit Board	1	* O
20	X1B3H8B	Screw, Printed Circuit Board M'tg	1	
21	SMW9-4	Bracket, Meter	1	* O
22	SDH399	Reflector Plate	1	
23	XTV3H8C	Screw, Meter Bracket M'tg	1	
24	HJV1A	Holder, Meter Lamp	1	
25	XWG3	Washer, Tape & Rec Mode Switch M'tg Screw	1	
26	XWG3	Washer (Spring), Push Switch M'tg Screw	8	
27	XWA3	Bracket, Power Transistor	2	*
28	SUW979S	Screw, Printed Circuit Board M'tg	2	
29	XTB3H8B	Lead Clamp	2	
30	SHRA307	Screw, Chassis M'tg (Left & Right Side)	4	
31	XTB3H8B	Foot, Set Button Board	4	
32	S-LA7-1	Washer, Foot M'tg Screw	4	
33	XWG3	Screw, Foot M'tg	4	
34	X-V3H-10C	Terminal, Input	1	O
35	SJF3027	Screw, Rear Panel M'tg	5	
36	X1B3H8B-Z	Latch, Input & Speaker Terminal M'tg	7	
37	SHR401-1	Caution Label, Cabinet	1	
38	QCC1045	Rear Panel	1	
39	SG-P650A	Rear Panel, SGP650A with Name Plate	1	O
40 [M]	SG-PJ7300C	Terminal Speakers	1	O
40 [MC]	SJF4803-3	Clamp, AC Cord	1	O
41	SHR301	Socket, AC Power	1	
42	SJS0205-1	Screw, AC Outlet M'tg	2	
44	XTN318BFZ	Washer, Cabinet M'tg	4	
45	XTB4-30BFZ	Washer (Spring), Cabinet M'tg Screw	4	
46	XWA49FZ	Washer, Cabinet M'tg Screw	4	
47	XWG5FZ	AC Cord	4	
48	RJA10A	Bushing, AC Cord	1	
49	RHR111	Cabinet, Simulated Wood	1	
50	SKA8351W	Caution Label, Cabinet Screw	1	O
51	SQA4-112		1	
52			1	
ACCESSORY				
A1	XBASIA3301	Fuse, 3.3A (125V), Speaker Circuit Protection	2	
PACKING PARTS				
P1	SPP511	Polyethylene Bag	1	
P2	SPS979	Pad, Right Upper Side	1	O
P3	SPS977	Pad, Right Lower Side	1	O
P4	SPS975	Pad, Left Upper Side	1	O
P5	SPS973	Pad, Left Lower Side	1	O
P6 [M]	SPC991	Carton Box	1	O
P6 [MC]	SPC993	Carton Box	1	O
P7 [M]	SQF1501	Printed Matter, (Instructions Book)	1	O
P7 [MC]	SQF1503	Printed Matter, (Instructions Book)	1	O

The model [M] is available in America only.
The model [MC] is available in Canada only.

■ ACCESSORY



■ PACKINGS

